PCT





INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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B60S 1/38

A1

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(72) Inventor; and

137

(75) Inventor/Applicant (for US only): <u>FEHRSEN</u>, Johannes, Hendrik [ZA/ZA]; 20A Meyer Street, Oaklands, 2192 Johannesburg (ZA).

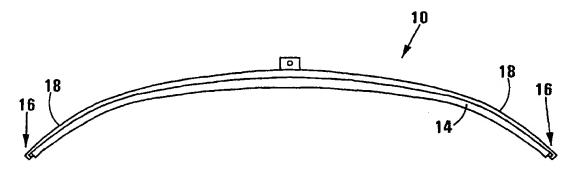
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(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: A WINDSCREEN WIPER



(57) Abstract

A windscreen wiper (10) includes a unitary elongate curved backbone in the form of a beam (18) and a rubber wiper blade (14). The beam (18) has a protective end formation (16) at each of its tips (18). The end formation (16) may be in th form of an extension to the beam (18), or it may be a separate cap of a synthetic plastics material which fits on the wiper blade tip. The application also relates to a protective end fitting for a unitary curved windscreen wiper.

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conal Application No. PCT/IB 99/01565

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B60S1/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7-860S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X	WO 88 05004 A (SWF AUTO ELECTRIC GMBH) 14 July 1988 (1988-07-14)	1-4,8, 11,12	
Y	abstract; claim 1; figures page 1, line 18 - line 31	5-7,9	
x	GB 2 102 281 A (FISTER SPA) 2 February 1983 (1983-02-02)	10	
Y	abstract; claims 1,2; figures	6	
Y	US 3 881 214 A (PALU ATTILIO DAL) 6 May 1975 (1975-05-06)	5	
A	abstract; claims; figures column 2, line 49 -column 4, line 14	1,10	
Y	EP 0 594 451 A (ANGLO AMERICAN IND CORP LTD) 27 April 1994 (1994-04-27)	7	
Α	abstract; claim 1; figures 1-3 page 3, line 22 - line 32	1,8	

Further documents are listed in the continuation of box C.	Y Patent family members are listed in annex.
Special categories of cited documents :	
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
3 December 1999	10/12/1999
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Westland, P

Form PCT/ISA/210 (second sheet) (July 1992)

onal Application No PCT/IB 99/01565

		PCT/IB 99/01565
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 196 51 229 A (VALEO SYSTEMES ESSUYAGE) 3 July 1997 (1997-07-03) abstract; figures column 2, line 30 -column 3, line 15	9
(DE 25 04 453 A (SWF) 5 August 1976 (1976-08-05) claims 1,5; figures page 3, line 28 - line 31 page 5, line 14 - line 16	1,2
	US 3 785 002 A (QUINLAN W ET AL) 15 January 1974 (1974-01-15) abstract; figures column 3, line 54 - line 67	1,2,10
(,P	DE 198 02 451 A (ROBERT BOSCH GMBH) 29 July 1999 (1999-07-29) abstract; claims 1-4; figures 1-5 column 1, line 52 - line 63 column 3, line 48 -column 5, line 6	1,2,6-8,

ation on patent family members

onal Application No PCT/IB 99/01565

				•	
Patent documen cited in search rep	•	Publication date		Patent family member(s)	Publication date
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			ΙŢ	968324 B	20-03-1974
	•		DE	2344876 A	14-03-1974
			FR	2199302 A	05-04-1974
			GB	1438568 A	09-06-1976
			JP	49092726 A	04-09-1974
			YU	213873 A,B	28-02-1981
EP 0594451	Α	27-04-1994	DE	69303250 D	25-07-1996
	*		DE	69303250 T	07-11-1996
			ES	2088236 T	01-08-1996
			JP	2812651 B	22-10-1998
			JP	6340249 A	13-12-1994
			US	5485650 A	23-01-1996
			ZA	9307792 A	16-05-1994
DE 19651229	Α	03-07-1997	FR	2743041 A	04-07-1997
DE 2504453	Α	05-08-1976	NONE		
US 3785002	A	15-01-1974	NONE		
DE 19802451	Α	29-07-1999	NONE		

A.D

PATENT COOPERATION TREATY PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PCT/ISA//	of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
F14563IN International application No.	ACTION	I (5. E.) Di ti Di (1. C.)
international application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/IB 99/01565	22/09/1999	12/10/1998
Applicant TRICO PRODUCTS CORPORATIO	N et al.	
according to Article 18. A copy is being tr This International Search Report consists	of a total of sheets.	
X It is also accompanied by	a copy of each prior art document cited in this	report.
Basis of the report		
 a. With regard to the language, the language in which it was filed, un 	international search was carried out on the balless otherwise indicated under this item.	sis of the international application in the
the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of t	he international application furnished to this
was carried out on the basis of th		nternational application, the international search
filed together with the inte	ernational application in computer readable form	n.
furnished subsequently to	this Authority in written form.	
furnished subsequently to	this Authority in computer readble form.	
	bsequently furnished written sequence listing dus filed has been furnished.	oes not go beyond the disclosure in the
the statement that the infe furnished	ormation recorded in computer readable form is	s identical to the written sequence listing has been
2. Certain claims were fou	nd unsearchable (See Box I).	
3. Unity of Invention is lac	king (see Box II).	
4. With regard to the title,		
the text is approved as su	bmitted by the applicant.	
the text has been establis	hed by this Authority to read as follows:	
5. With regard to the abstract,		
the text is approved as su	ebmitted by the applicant.	
the text has been establis	hed, according to Rule 38.2(b), by this Authori a date of mailing of this international search rep	
6. The figure of the drawings to be published.	ished with the abstract is Figure No.	1
X as suggested by the appli	cant.	None of the figures.
because the applicant fail	ed to suggest a figure.	
because this figure better	characterizes the invention.	

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A windscreen wiper (10) includes a unitary elongate curved backbone in the form of a beam (18) and a rubber wiper blade (14). The beam (18) has a protective end formation (16) at each of its tips (18). The end formation (16) may be in the form of an extension to the beam (18), or it may be a separate cap of a synthetic plastics material which fits on the wiper blade tip. The application also relates to a protective end fitting for a unitary curved windscreen wiper.

International Application No CT/IB 99/01565

A. CLASSIFICATION OF SUBJECT IPC 7 B60S1/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \mbox{Minimum documentation searched} & \mbox{(classification system followed by classification symbols)} \\ \mbox{IPC} & 7 & \mbox{B60S} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	WO 88 05004 A (SWF AUTO ELECTRIC GMBH) 14 July 1988 (1988-07-14)	1-4,8, 11,12
Y	abstract; claim 1; figures page 1, line 18 - line 31	5-7,9
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A	abstract; claims; figures column 2, line 49 -column 4, line 14	1,10
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Α	abstract; claim 1; figures 1-3 page 3, line 22 - line 32	1,8
	 -/	

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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filling date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
3 December 1999	10/12/1999
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk	Authorized officer
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Westland, P

International Application No CT/IB 99/01565

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
		The same to digital type.
Y	DE 196 51 229 A (VALEO SYSTEMES ESSUYAGE) 3 July 1997 (1997-07-03) abstract; figures column 2, line 30 -column 3, line 15	9
X I	DE 25 04 453 A (SWF) 5 August 1976 (1976-08-05) claims 1,5; figures page 3, line 28 - line 31 page 5, line 14 - line 16	1,2
1	US 3 785 002 A (QUINLAN W ET AL) 15 January 1974 (1974-01-15) abstract; figures column 3, line 54 - line 67	1,2,10
X,P	DE 198 02 451 A (ROBERT BOSCH GMBH) 29 July 1999 (1999-07-29) abstract; claims 1-4; figures 1-5 column 1, line 52 - line 63 column 3, line 48 -column 5, line 6	1,2,6-8,

Information on patent family members

International Application No CT/IB 99/01565

	atent document d in search report		Publication date		Patent family member(s)		Publication date
WO	8805004	Α	14-07-1988	DE	3644427	Α	07-07-1988
GB	2102281	A	02-02-1983	FR	2510500	Α	04-02-1983
US	3881214	Α	06-05-1975	IT	985855		20-12-1974
				ΙT	968324	В	20-03-1974
				DE		Α	14-03-1974
				FR	2199302		05-04-1974
				GB	1438568		09-06-1976
				JP	49092726		04-09-1974
				YU	213873	A,B	28-02-1981
ΕP	0594451	Α	27-04-1994	DE	69303250	D	25-07-1996
				DE	69303250	T	07-11-1996
				ES	2088236	T	01-08-1996
				JP	2812651		22-10-1998
				JP	6340249		13-12-1994
				US	5485650		23-01-1996
				ZA	9307792	Α	16-05-1994
DE	19651229	Α	03-07-1997	FR	2743041	Α	04-07-1997
DE	2504453	Α	05-08-1976	NONE			
 US	3785002	Α	15-01-1974	NONE			
	19802451	 -	29-07-1999	NONE			

"ATENT COOPERATION TRE "TY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	See Noti	fication of Transmittal of International
F14563IN/vd FOR FURTH		ary Examination Report (Form PCT/IPEA/416)
International application No. International filing	date (day/month/year)	Priority date (day/month/year)
PCT/IB99/01565 22/09/1999		12/10/1998
International Patent Classification (IPC) or national classification B60S1/38	and IPC	
Applicant		
TRICO PRODUCTS CORPORATION et al.		
This international preliminary examination report has and is transmitted to the applicant according to Article		nternational Preliminary Examining Authority
2. This REPORT consists of a total of 5 sheets, including	ng this cover sheet.	
This report is also accompanied by ANNEXES, been amended and are the basis for this report (see Rule 70.16 and Section 607 of the Adminis	and/or sheets containing	rectifications made before this Authority
These annexes consist of a total of 1 sheets.		
	**	
3. This report contains indications relating to the followi	ng items:	
I ⊠ Basis of the report	. ,	
II □ Priority		
III Non-establishment of opinion with regard	to novelty, inventive ste	p and industrial applicability
IV Lack of unity of invention		
V A Reasoned statement under Article 35(2) citations and explanations suporting suc	with regard to novelty, in h statement	ventive step or industrial applicability;
VI Certain documents cited	••	
VII 🛛 Certain defects in the international applic	ation	
VIII Certain observations on the international		
Date of submission of the demand	Date of completion of	of this report
12/05/2000	12.12.2000	
Name and mailing address of the international preliminary examining authority:	Authorized officer	Supering Committee of Supering
European Patent Office D-80298 Munich	Durand-Smet, J	
Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Telephone No. +49	RQ 23QQ RRR1

Form PCT/IPEA/409 (cover sheet) (January 1994)



I.	Bas	is c	f th	ne r	ep	ort
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1.	This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).): Description, pages:								
	1-4	<i>;</i>	as originally filed						
	Cla	Claims, No.:							
	1-7		as received on	22/09/2000	with letter of	22/09/2000			
	Drawings, sheets:								
	1/1		as originally filed						
2.	With lang	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.							
	e: , which is:								
		the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).							
		the language of publication of the international application (under Rule 48.3(b)).							
		the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).							
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:								
		contained in the international application in written form.							
		filed together with the international application in computer readable form.							
		furnished subsequently to this Authority in written form.							
		furnished subsequently to this Authority in computer readable form.							
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.							
4.	The amendments have resulted in the cancellation of:								
		the description,	pages:						
		the claims,	Nos.:						
					•				

The second secon



		the drawings,	sheets:
5. This report has been established as if (some of) the amendments had considered to go beyond the disclosure as filed (Rule 70.2(c)):			established as if (some of) the amendments had not been made, since they have been cond the disclosure as filed (Rule 70.2(c)):
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to this
6.	Addi	itional observations, il	f necessary:

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 1-7

No:

Yes:

: Claims

Inventive step (IS)

Yes: Claims 1-7

Claims

Claims 1-7

Industrial applicability (IA)

No: Clair

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

To item V:

- It is already known from WO-A-88/05 004 or from US-A-3 881 214 to provide a windscreen wiper which includes a unitary elongate curved beam and a rubber blade mounted to the beam, the beam having a protective end formation at at least one of its lips. Furthermore, the end formation comprises an end portion of the beam, which projects beyond an end portion of the rubber blade.
- In the windscreen wiper disclosed in WO-A-88/05 004, the curved beam is made 2. of resilient plastics material. Therefore, the protective end formations of the curved beam disclosed therein cannot comprise a deformed end portion.
 - Similarly, in the windscreen wiper disclosed in US-A-3 881 214, the supporting structure (1) defining protruding portions (25) does not seem to be made of metal, because a cylindrical convex surface (18) is formed on a projecting portion of the supporting structure (1) and because the supporting structure (1) is formed with inner reliefs or recesses (21) by removing some material form the supporting structure (1). Therefore, one can assume that this supporting structure should have been formed by means of injection moulding, so that it the protruding portions (25) integral therewith should have been formed by moulding, but not by deformation.
- According to the claimed invention, the protective end formations are made by 3. deformation, which facilitates manufacture thereof and increases the efficacy of the protective end portions.
 - As there is no suggestion to a skilled person among the other cited prior art documents to have the end portions of the beam of the windscreen wiper disclosed in WO-A-88/05 004 or US-A-3 881 214 obtained by deformation, the subject-matter of claim 1 seems to be novel and inventive under the terms of article 33 (1) to (3) PCT.
- Further developments in line with the invention according to claim 1 are referred 4. to in the dependent claims 2 to 7. Therefore, their subject-matters seem also to be novel and inventive.

Control of the Contro

To items VII and VIII:

- 1. The following observations are made to claim 1:
- 1.1. The indication that "the end formation comprises an end portion of the beam, which projects beyond an end portion of the rubber blade" should be transferred into the precharacterising portion of claim 1 for compliance with article 6 PCT and rule 6.3 (b) i), ii) PCT, see paragraph 1. above.
- 1.2. The embodiment described in connection with figures 2 to 4 of the present PCT-application falls outside the subject-matter covered by claim 1 having due regard to the protective end fitting which is moulded and which comprises a synthetic material, without being either deformed or projecting beyond an end portion of the wiper blade. Therefore, as explained in the PCT-Guidelines, chapter III, 4.3, the claims or the description and drawings should be amended such that this inconsistency be removed and thus such that any possible uncertainty could not arise later as to the meaning of the claims.

Jérôme DURAND-SMET

CLAIMS:

- A windscreen wiper which includes a unitary elongate curved beam, the
 beam having a protective end formation at at least one of its tips.
 - 2. The windscreen wiper as claimed in Claim 1, in which the beam has a pair of end formations, one at each tip.
- The windscreen wiper as claimed in Claim 2, in which each of the end formations includes an extra length of the beam, with the beam mounted to a rubber so that the extra length projects beyond an end of the rubber.
- 4. The windscreen wiper as claimed in Claim 3, in which each of the extra

 95 lengths is folded so that an end portion thereof extends substantially parallel to an end
 surface of the rubber.
 - 5. The windscreen wiper as claimed in Claim 3, in which each of the extra lengths is folded back on itself.
 - 6. The windscreen wiper as claimed in Claim 2, in which each of the protective end formations includes a cap of a synthetic plastics material which fits over the tip.
- 7. The windscreen wiper as claimed in Claim 1, in which the curved backbone has a varying width and thickness, along its length.

- 8. The windscreen wiper as claimed in Claim 1, in which the backbone has a free form curvature in a plane.
- 110 9. The windscreen wiper as claimed in Claim 1, in which the backbone has a compound curvature.
 - 10. A protective end fitting for windscreen wiper, which includes a body member having a recess for snugly receiving a tip of a beam.
 - 11. A windscreen wiper, substantially as herein described with reference to the accompany drawings.
- 12. A protective end fitting for a windscreen wiper, substantially as herein
 described with reference to the accompanying drawings.

PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU				
PCT	То:				
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE				
Date of mailing (day/month/year)	in its capacity as elected Office				
14 June 2000 (14.06.00)					
International application No. PCT/IB99/01565	Applicant's or agent's file reference F14563IN				
International filing date (day/month/year) 22 September 1999 (22.09.99)	Priority date (day/month/year) 12 October 1998 (12.10.98)				
Applicant FEHRSEN, Johannes, Hendrik					
TETHOLIN, CONTINUES, TICHOTIK					
The designated Office is hereby notified of its election made.	de:				
X in the demand filed with the International Preliminary Examining Authority on:					
12 May 2000 (12.05.00)					
in a notice effecting later election filed with the International Bureau on:					
2. The election X was was not made before the expiration of 19 months from the priority	date or, where Rule 32 applies, within the time limit under				
Rule 32.2(b).					
:					
The International Pureau of Mano	Authorized officer				
The International Bureau of WIPO 34, chemin des Colombettes 1211 Coneya 20 Switzerland	Pascal Piriou				

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